12. A method for receiving CDMA communication signals over a terrestrial RF communication system comprising:

receiving a CDMA communication signal transmitted on a selected RF carrier frequency, including removing said RF carrier frequency to provide a received information signal;

correcting phase errors of said received information signal including:

generating a local correction signal;

mixing said local correction signal with said received information signal to produce a phase corrected information signal; and

analyzing the phase of the phase corrected information signal and generating a phase error signal based on the deviation of the analyzed phase from a predetermined phase of zero;

adjusting the phase of said local corrected information signal continuously and recursively until such that said phase is equal to said predetermined phase, said adjusting step including:

selecting a bandwidth with an adjustable range based on said phase corrected information signal;

estimating an offset by interrogating said phase error signal; and

modifying said local correction signal with said offset.

13. The method of claim 12 wherein said phase corrected information signal comprises an in-phase component and a quadrature component and said analyzing step further comprises the step of determining the phase of said phase corrected information signal using a look-up table means; wherein said look-up table means accepts said phase corrected information signal and outputs said phase error signal.

14. The method of claim 13 wherein said analyzing step further comprises a psuedonormalizing step which includes:

determining the magnitude of the in-phase component and the magnitude of the quadrature-phase component;

determining the larger of said magnitudes; and

dividing both said magnitudes by said larger magnitude to output a psuedonormalized phase corrected information signal.

15. The method of claim 13 wherein said selecting step further includes a bandwidth calculation step for accepting said phase corrected information signal and outputting a bandwidth signal based upon a preselected transfer function.

16. The method of claim 13 wherein said estimating step further includes a filtering step, for maintaining said adjusting signal within said selected range, wherein said filtering is performed within a selectable bandwidth.

17. The method of claim 16 wherein said filter step is responsive to said bandwidth calculation step.

18. The method of claim 14 wherein said selecting step further includes a bandwidth calculation step for accepting said normalized phase corrected information signal and outputting a bandwidth signal based upon a preselected transfer function.

19. The method of claim 13 wherein said analyzing step further comprises a normalizing step which includes:

determining the magnitude of the phase corrected information signal;

dividing phase corrected information signal by said magnitude to output a normalized phase corrected information signal.

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